

Immunosuppression induced by brain-specific HDAC6 knockdown improves aging performance in *Drosophila melanogaster*

Phenomixs

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Supplementary Information

Table S1 Statistical information of lifespan experiments

Experiment	Strain	No. of fly	Median survival	Log-rank test <i>p</i> -value
	Control 1	193	50	<0.0001
Figure 2a	Control 2	179	51	0.0002
	Da-gal4>UAS-HDAC6 RNAi	188	53	

	Control 1	208	43	<0.0001
Figure 2c	Control 2	179	51	<0.0001
	Elav-gal4>UAS-HDAC6	212	55	
	RNAi			
Figure 2e	DMSO	201	35	<0.0001
	0.5mM TMP	196	40	

Supplementary Figure 1 The changed immune genes in the Figure 1a

GO:0006952--defense response	IM3	Drs	IM2	IM23	IM1	IM4	CG15065
GO:0009617--response to bacterium	IM3	Drs	PGRP-LC	IM2	IM23	IM1	IM4
GO:0050830--defense response to Gram-positive bacterium	PPO1	PPO2	Listericin	LysX	AttD	IM23	
GO:0045087--innate immune response	IM3	Drs	PGRP-LC	IM2	IM23	IM1	IM4
GO:0006749--glutathione metabolic process	GstE7	GstD4	GstD5	GstD8	GstD2		
GO:0019731--antibacterial humoral response	IM3	Drs	IM23	PGRP-LC			

Supplementary Figure 2 The efficiency of HDAC6 knockdown in the flies in these experiments

